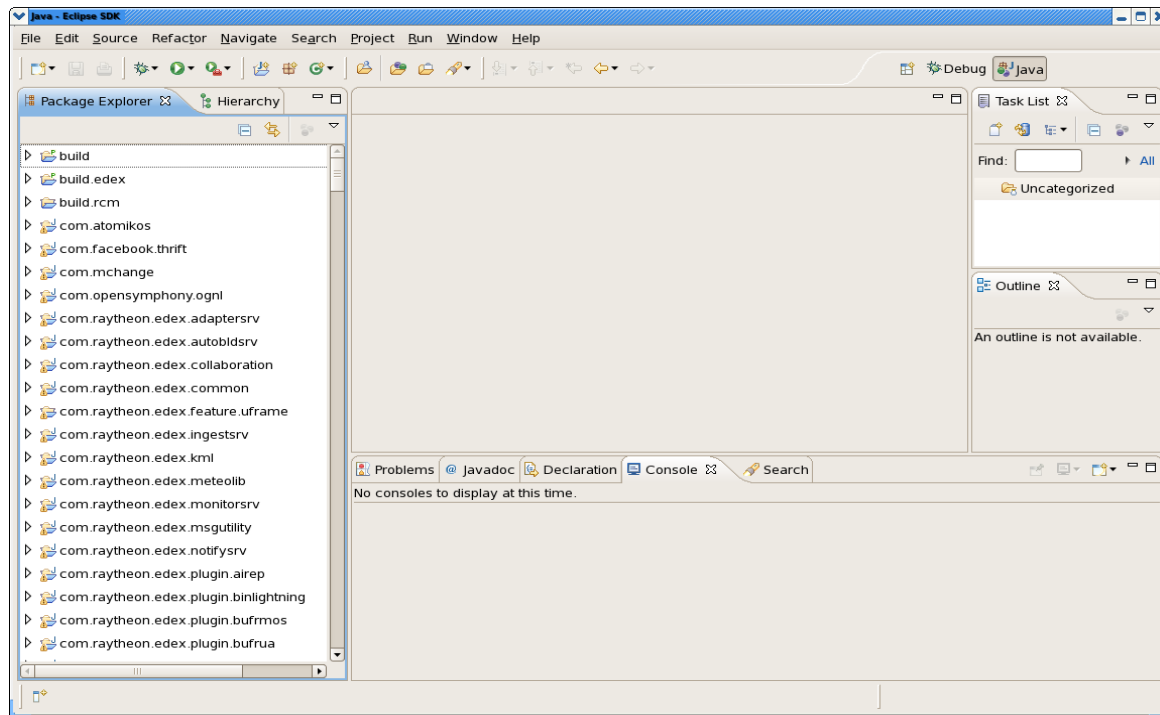
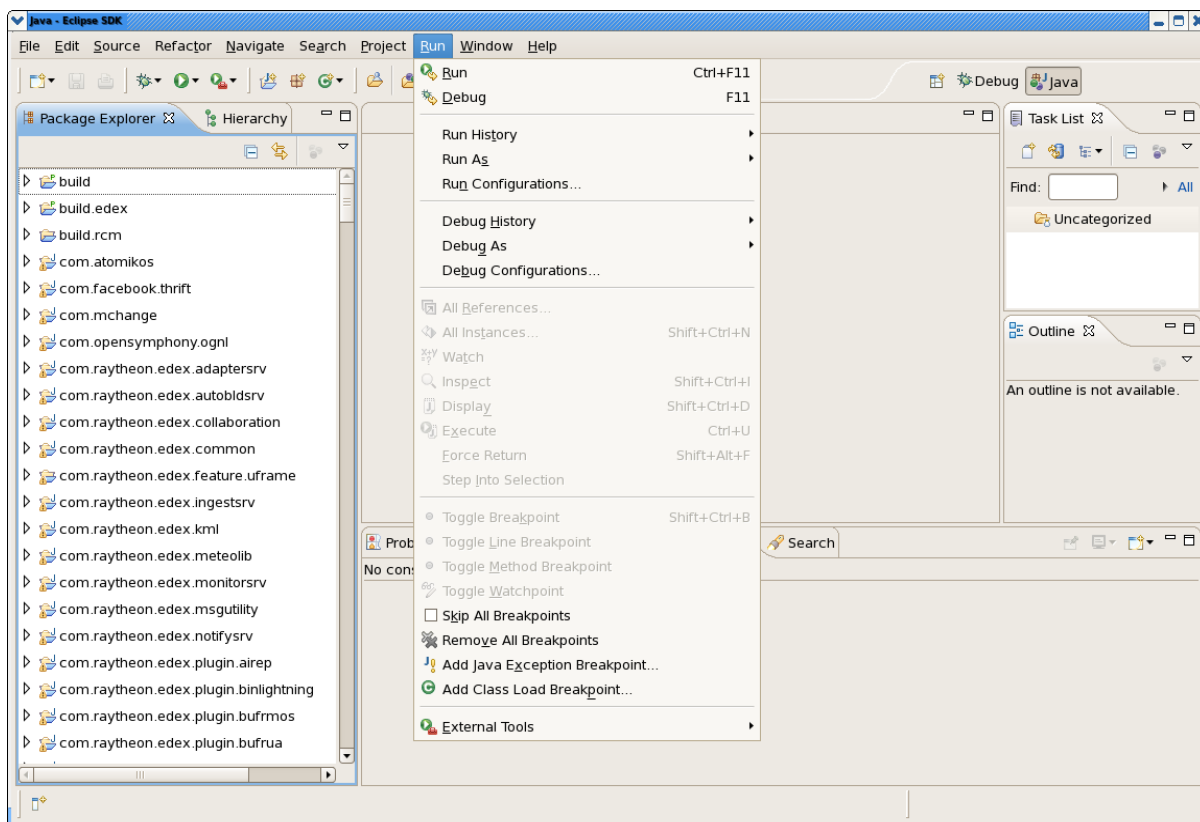


Demo Part 2.

```
cd ~/ade/eclipse  
./eclipse.sh
```

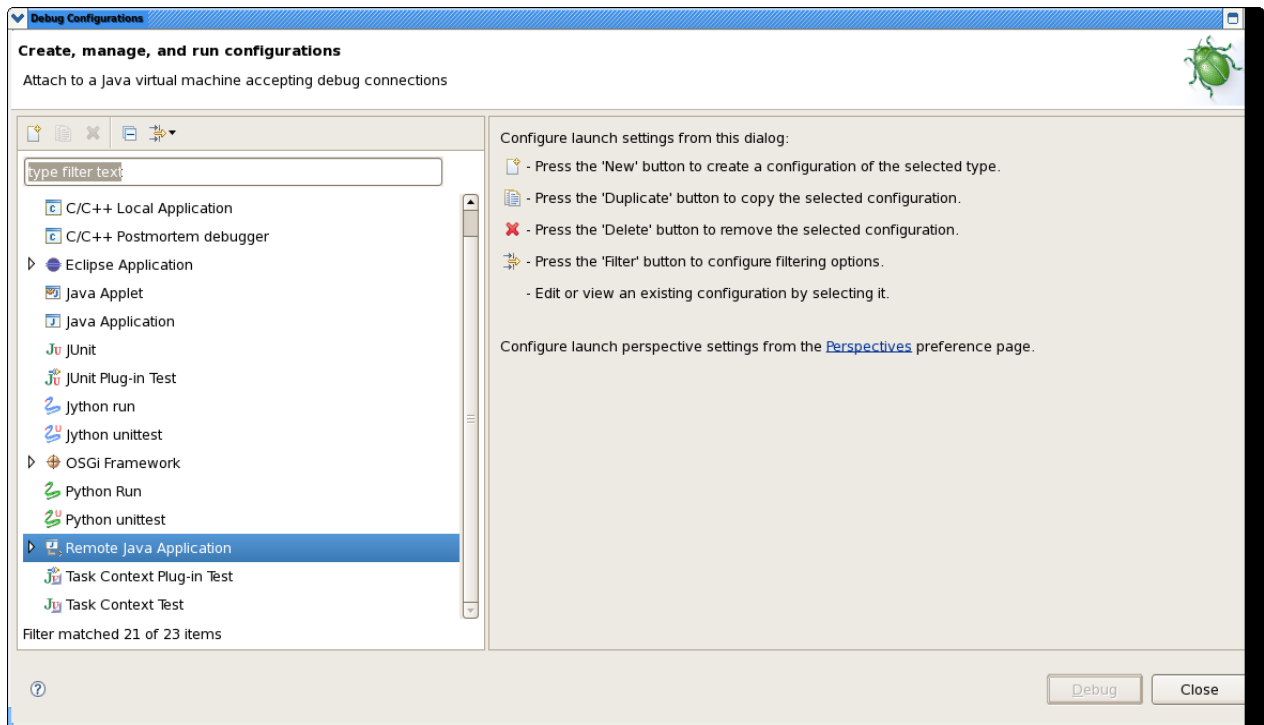


Select **Debug Configurations** from the **run** pull down menu.

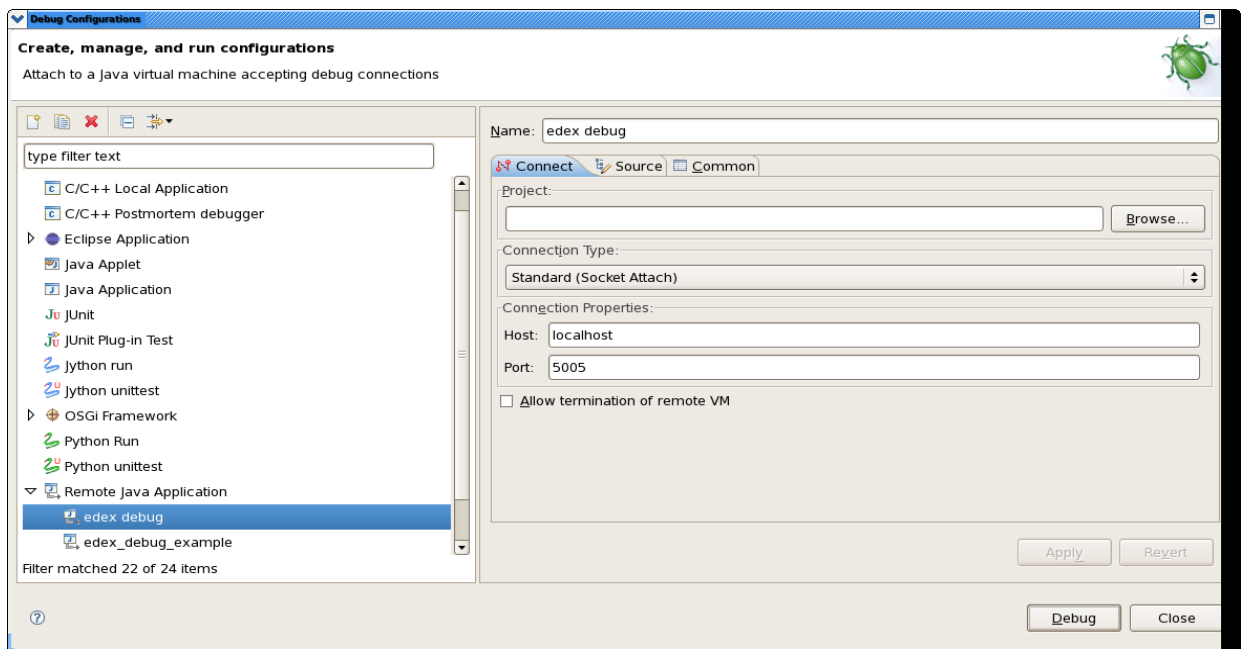


The Debug Configurations window appears.

Select **Remote Java Application** and Press the **New** button to create a remote java application run configuration.

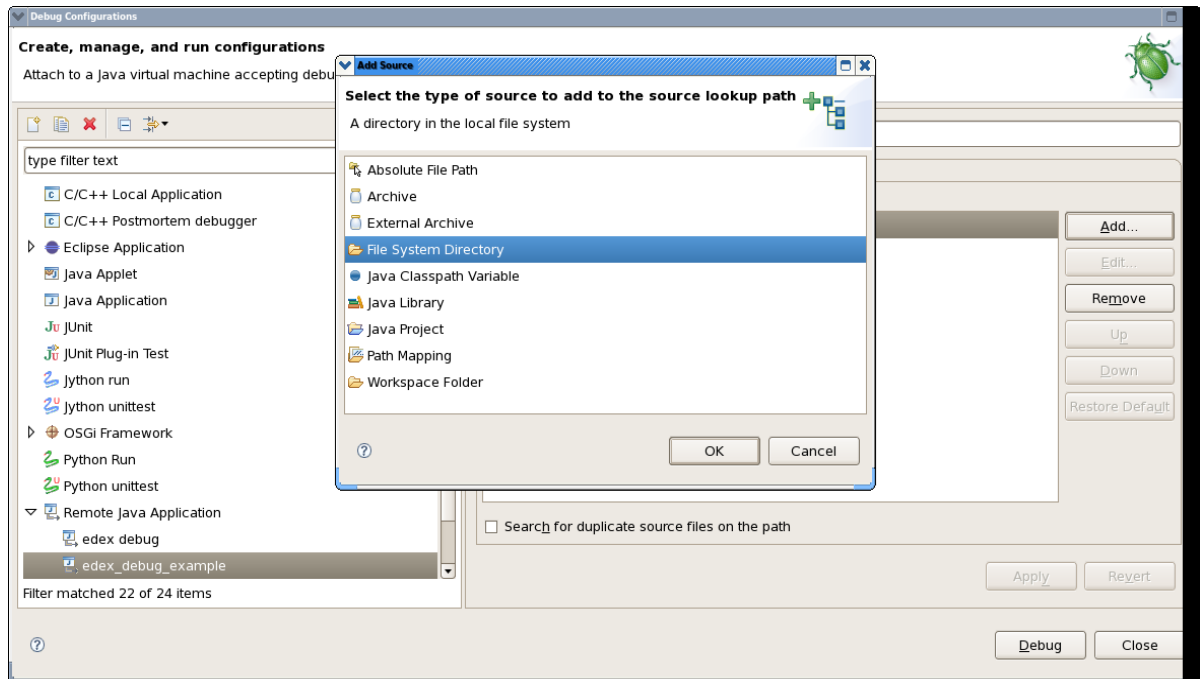


The following screen should appear.

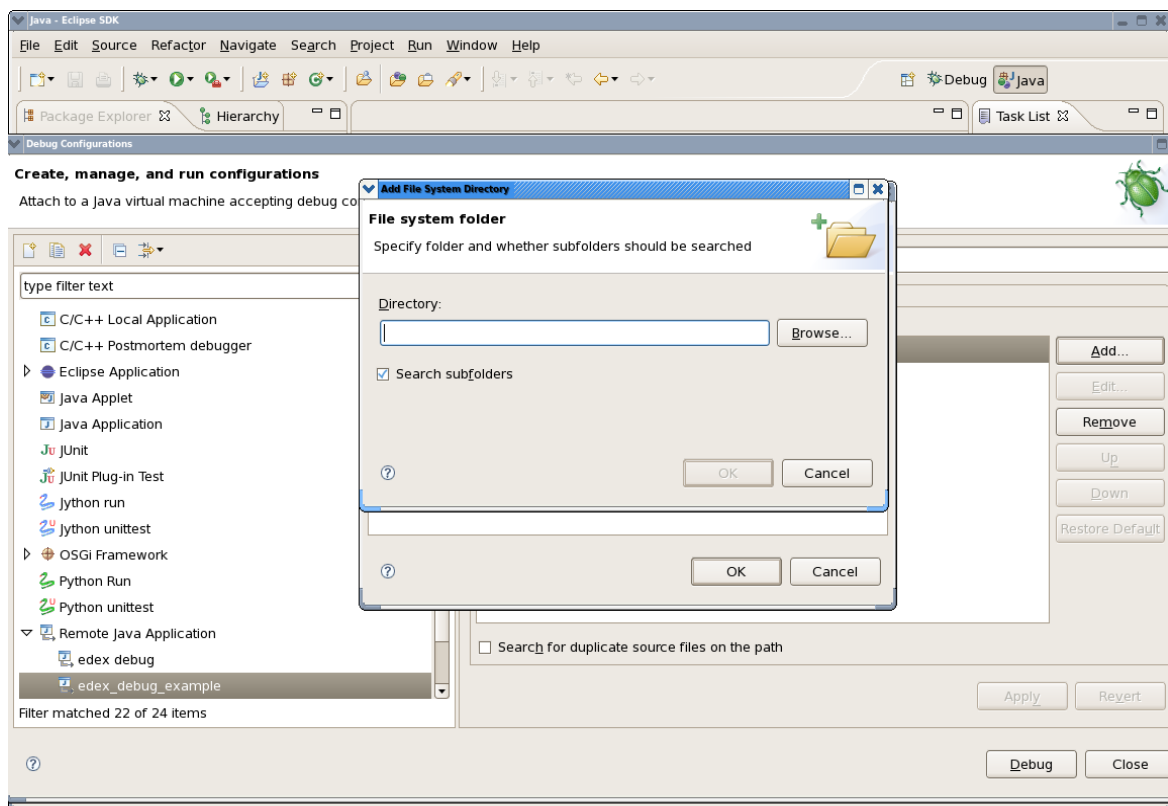


Enter a name for the configuration and change the port to 5005. Then select the **Source** tab.

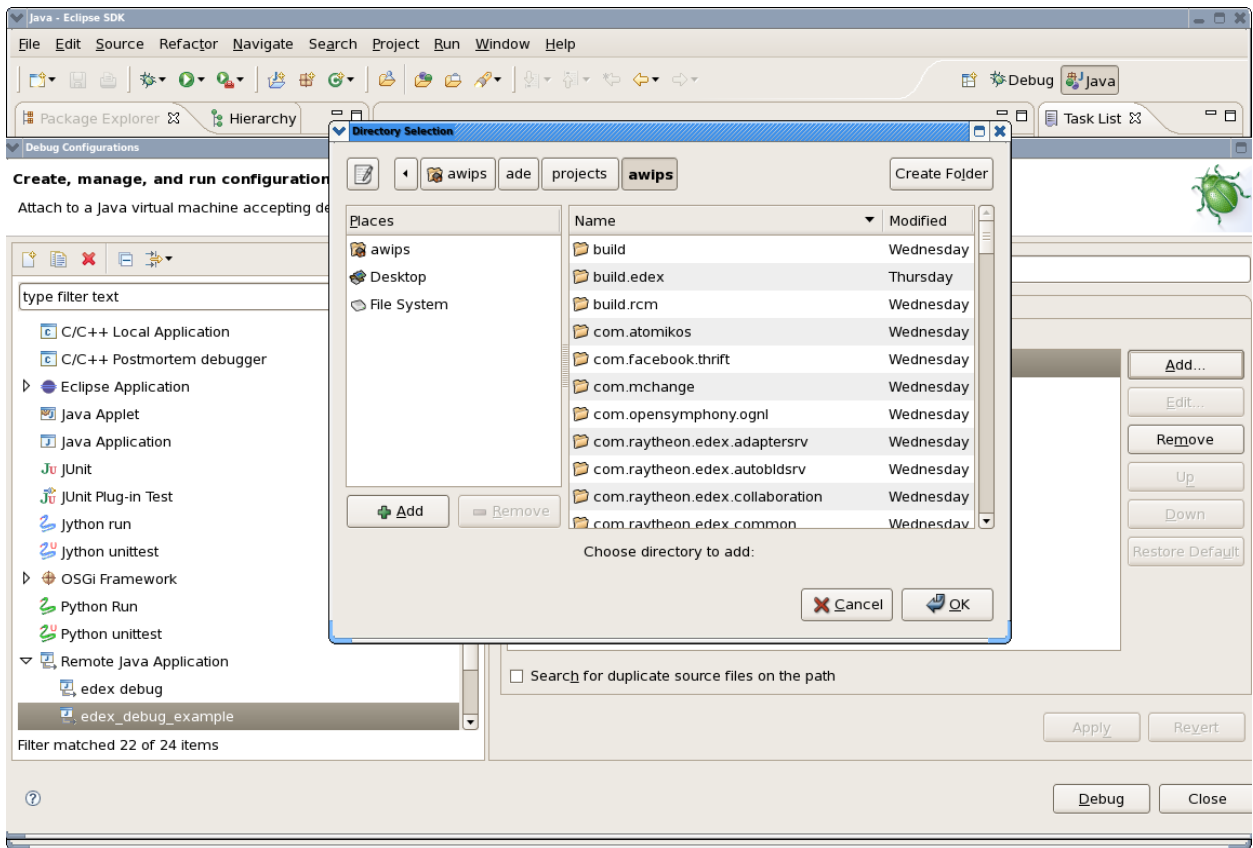
On the source tab select the **Add** button.



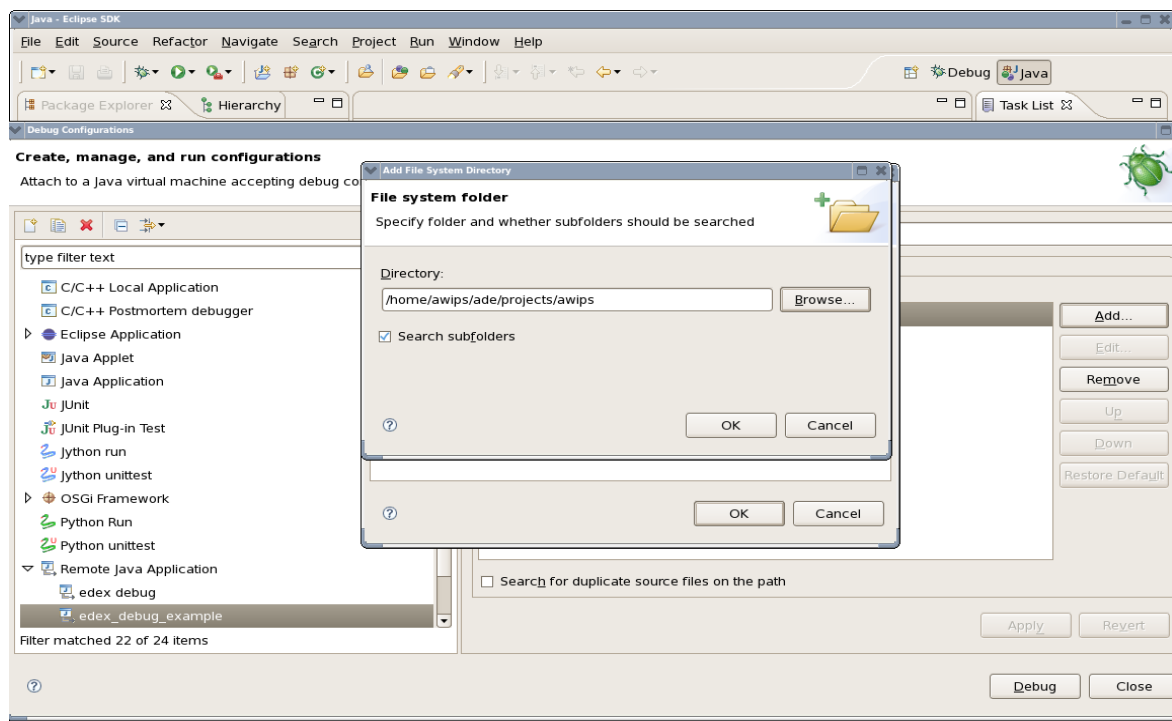
Highlight the **File System Directory** selection and click the **Ok** button.



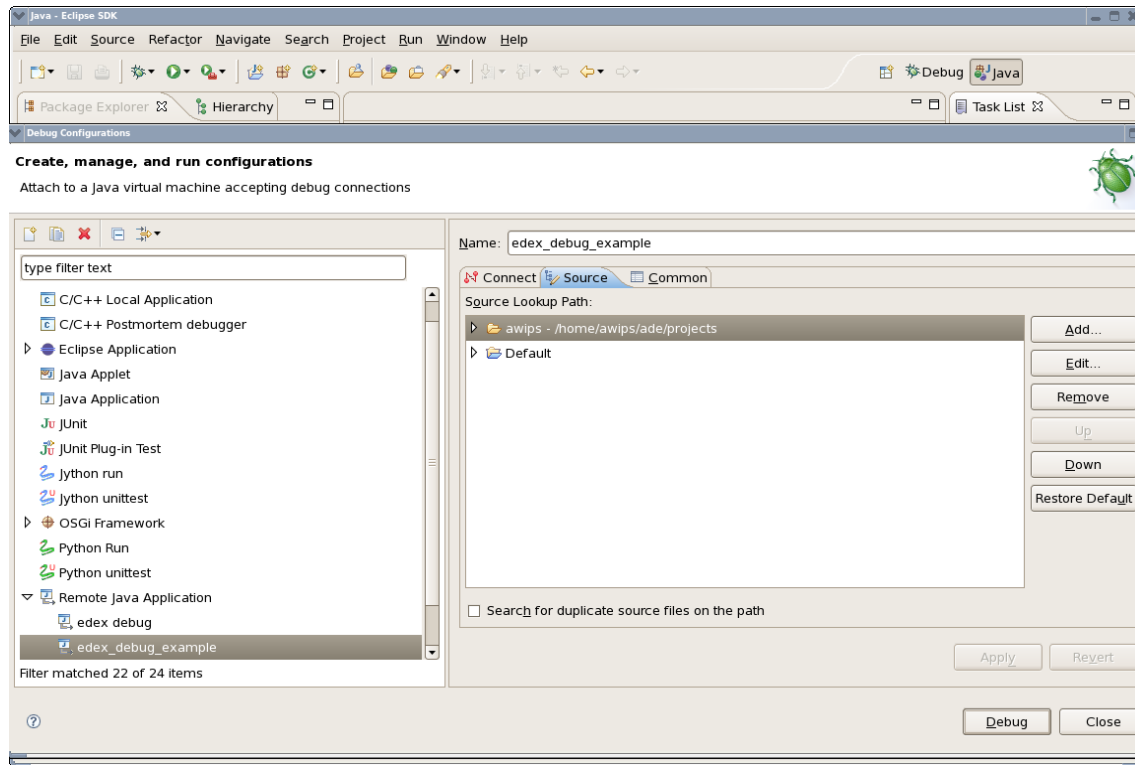
Select the **Browse** button and navigate to the AWIPS project workspace directory.



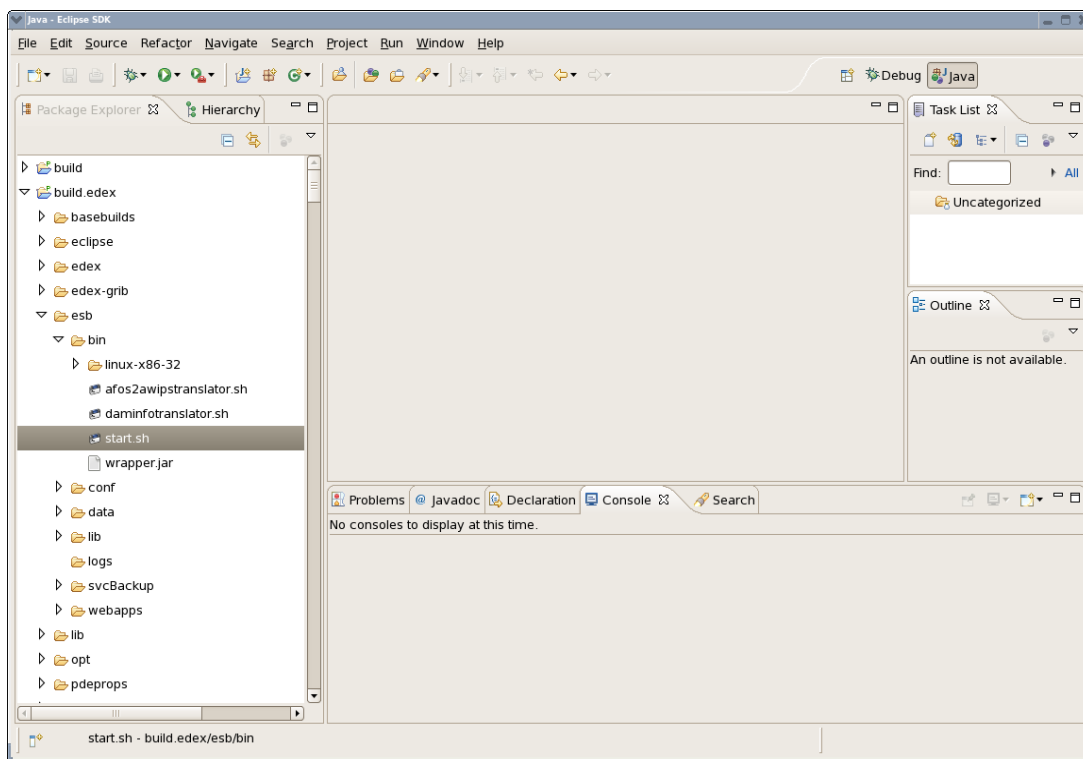
Click the **OK** button. On the **File System Folder** dialog. Make sure that **Search subfolders** is selected and Click the **Ok** button.



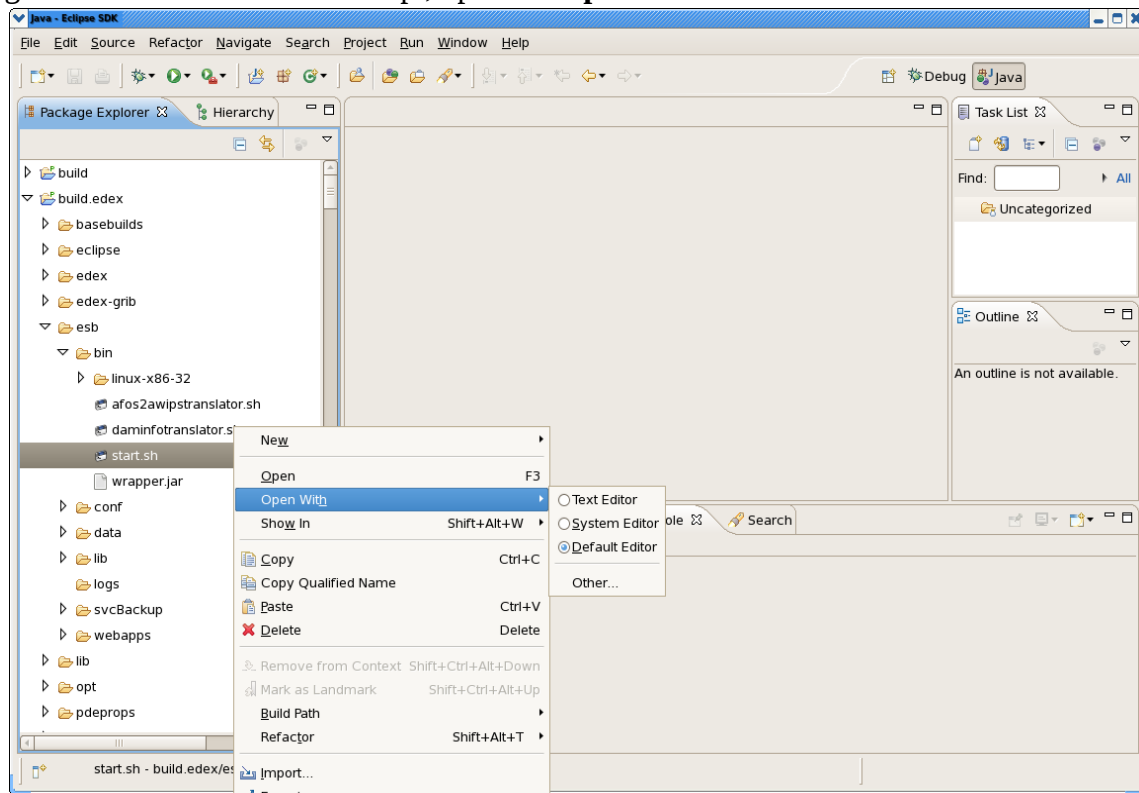
Click the **Apply** button in the run configurations window then select the **Close** button.



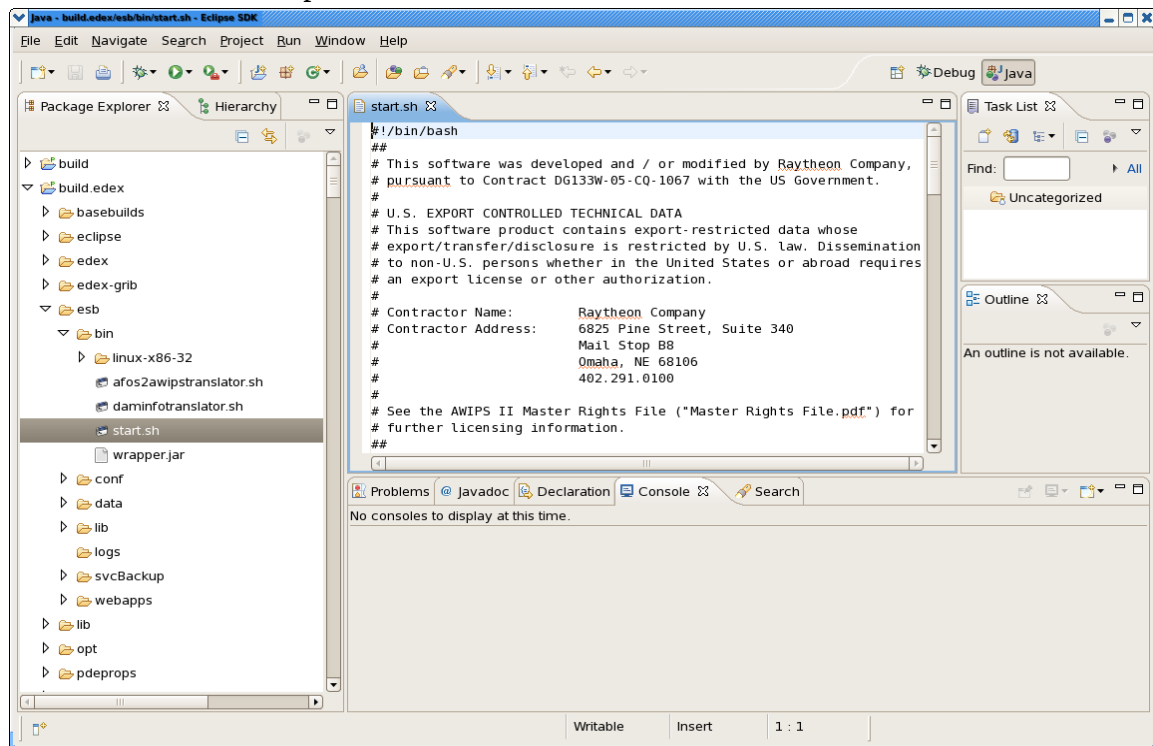
In the **Package Explorer** expand the **build.edex** package, expand the **esb** folder and expand the **bin** folder and high lite the **start.sh** shell script



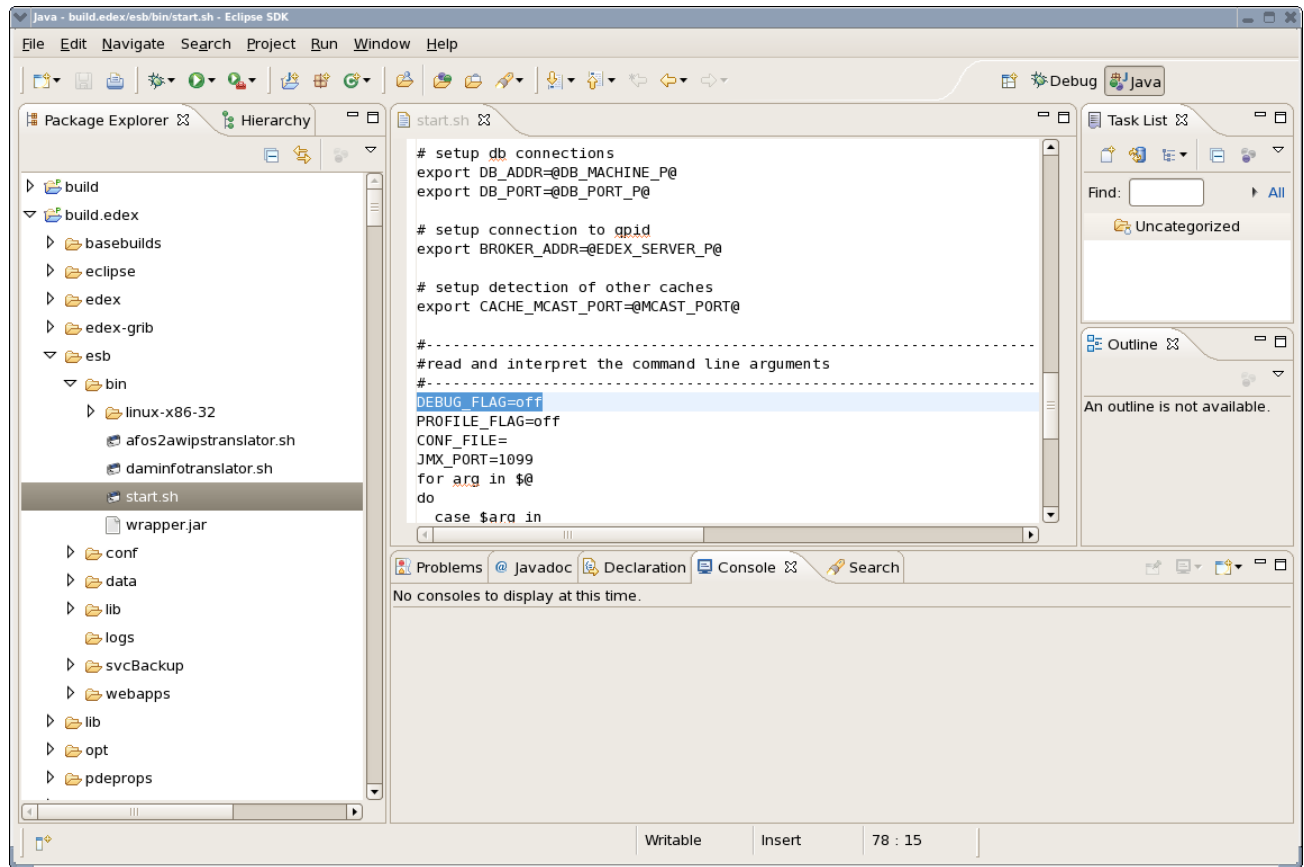
Right click the **Start.sh** shell script, open the **Open With** sub menu and select **Text Editor**.



Edit the start.sh shell script.

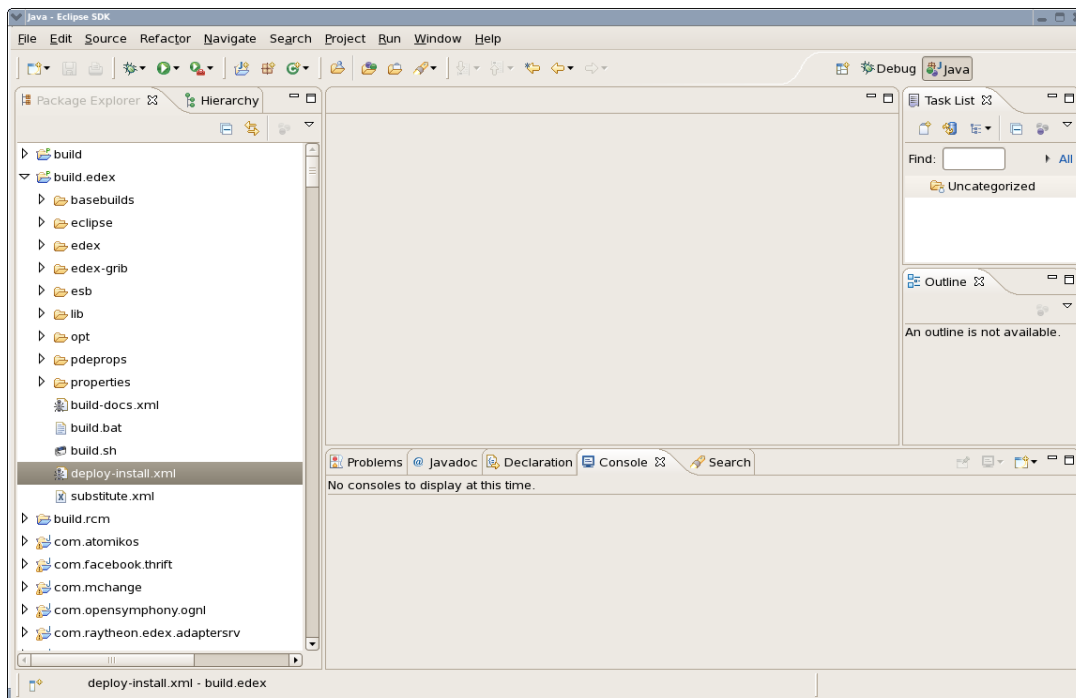


Scroll down to the line **DEBUG_FLAG=off** and change it to **DEBUG_FLAG=on**

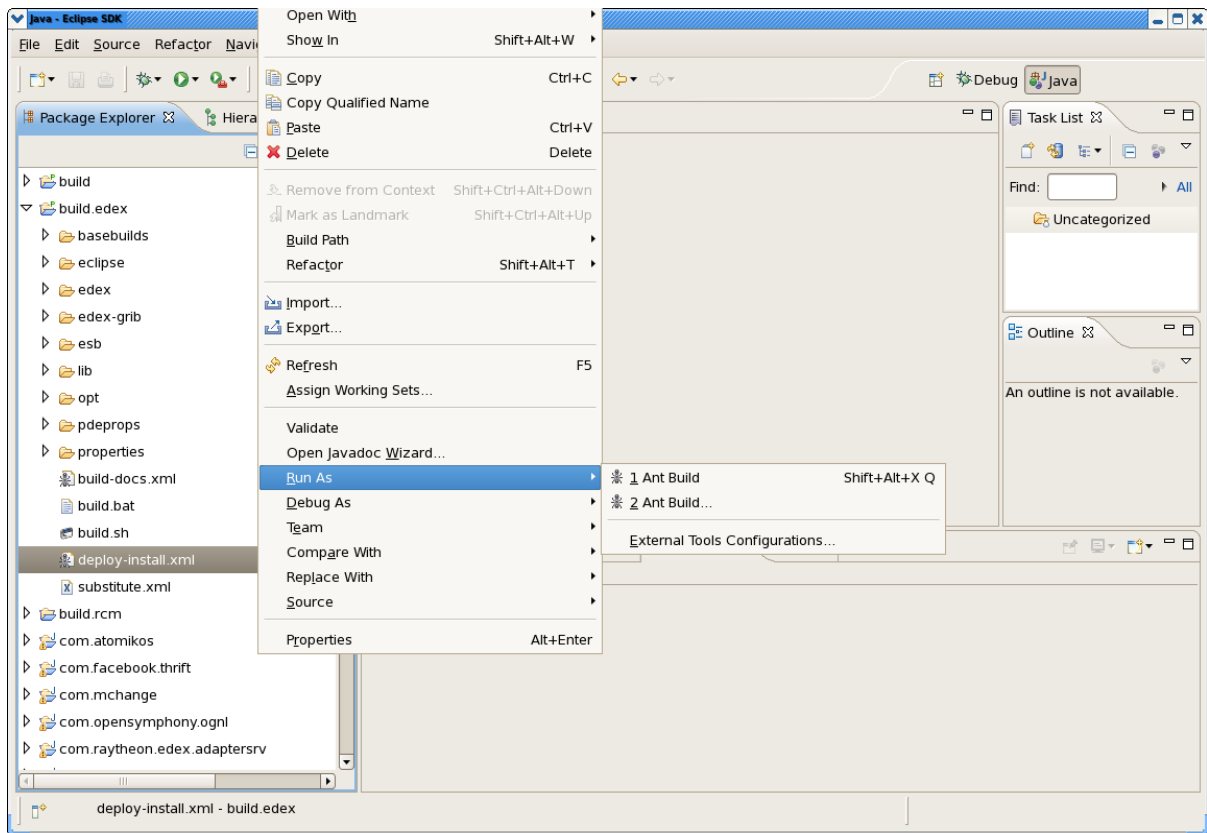


Enter **Cntrl-S** to save your changes and **Cntrl-w** to close the **start.sh** file.

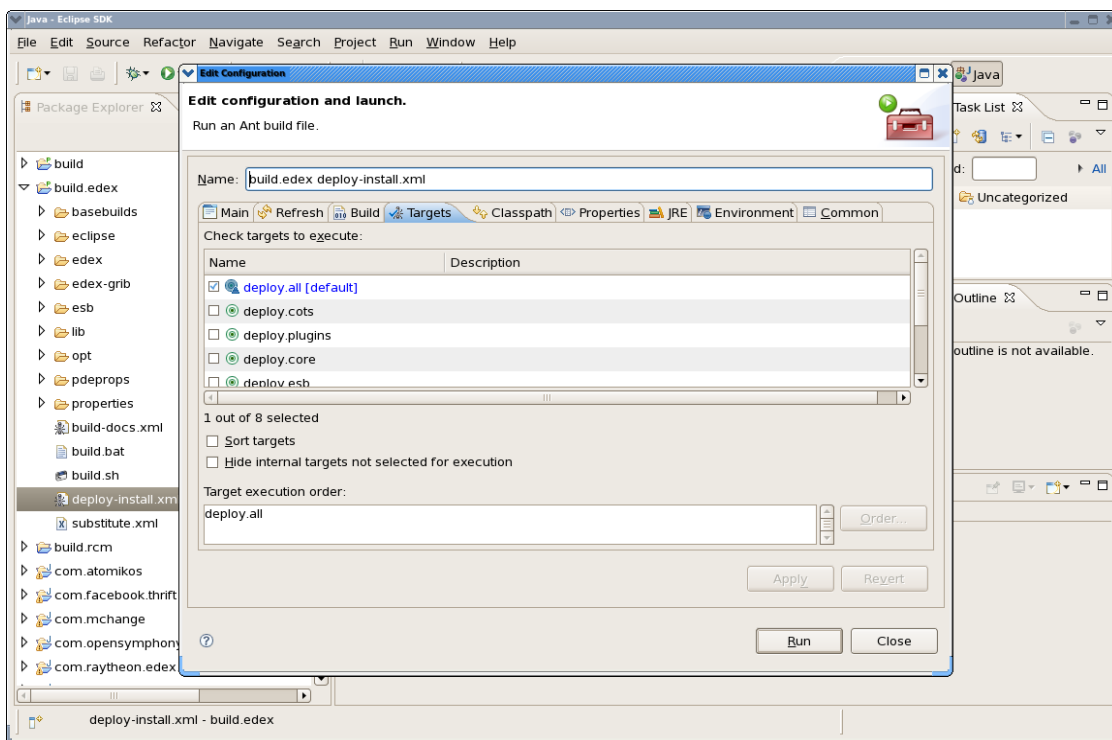
Collapse the **esb** folder and highlight the **deploy-install.xml** and build file.



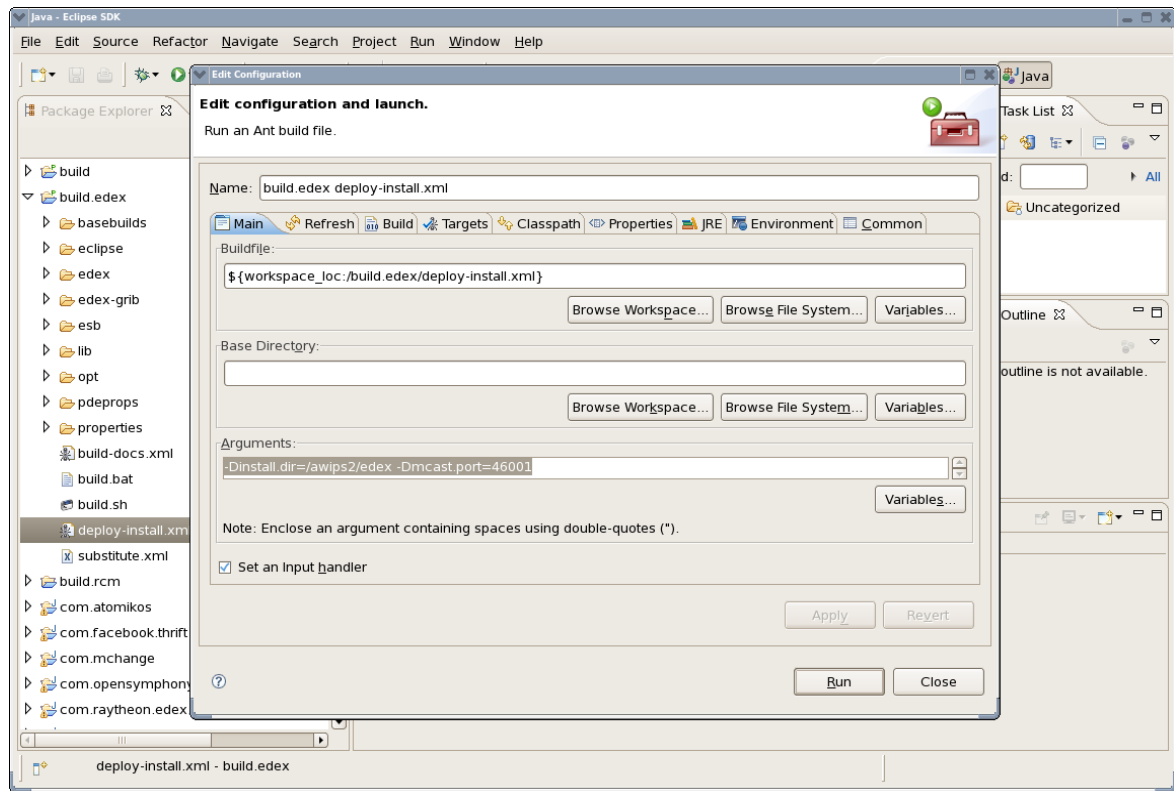
Right click on **deploy-install.xml**, expand the **Run as** sub-menu and select the second **ant build** menu choice.



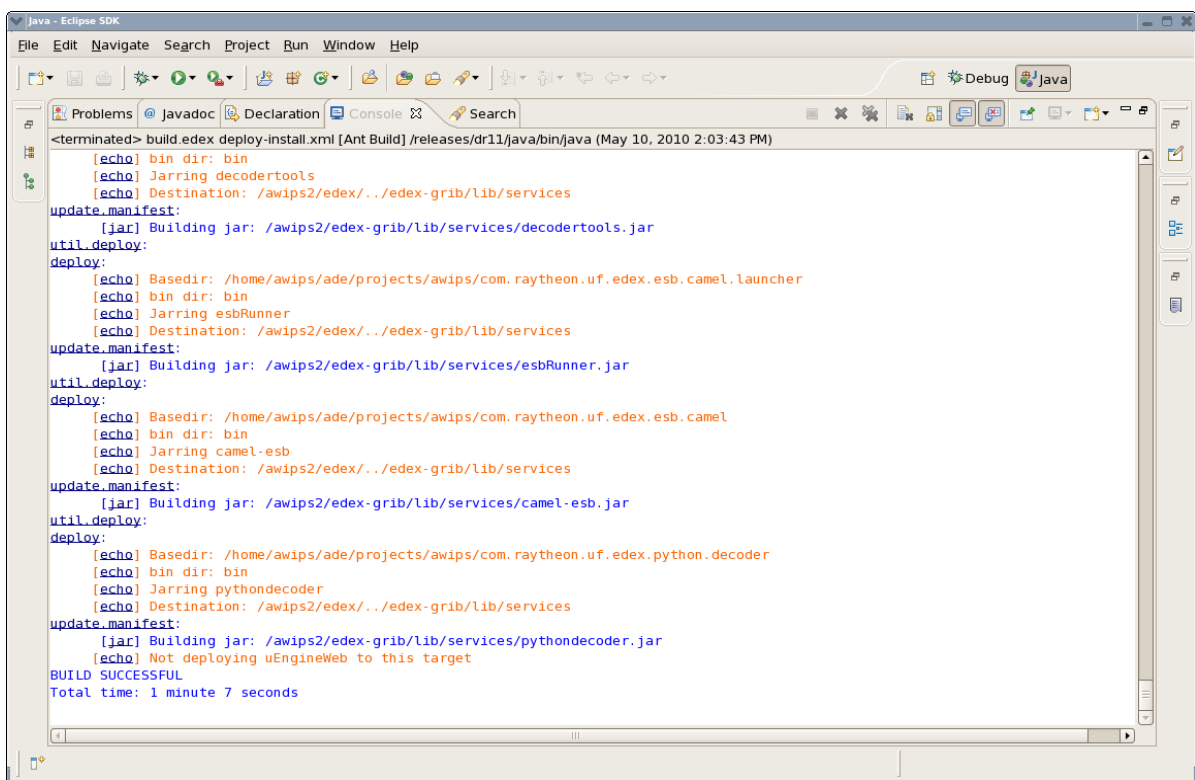
Select the **Main** tab in the **Edit Configuration** dialog box.



Enter **-Dinstall.dir=/awips2/edex -Dmcast.port=46001** in the **Arguments** text box.



Click the **Apply** button and then click the **Run** button. If you double click on the **Console** tab you can watch the results of your build.

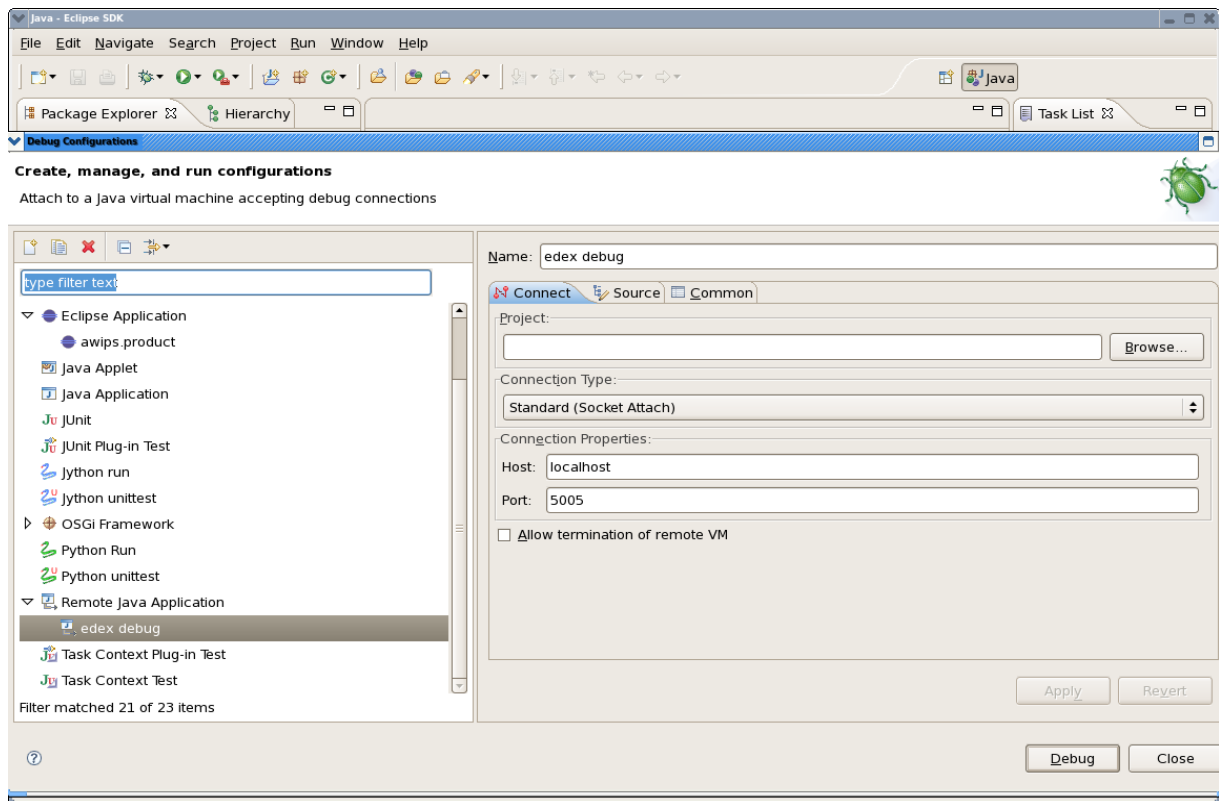


Double click the console tab again to return to the default Java perspective layout.

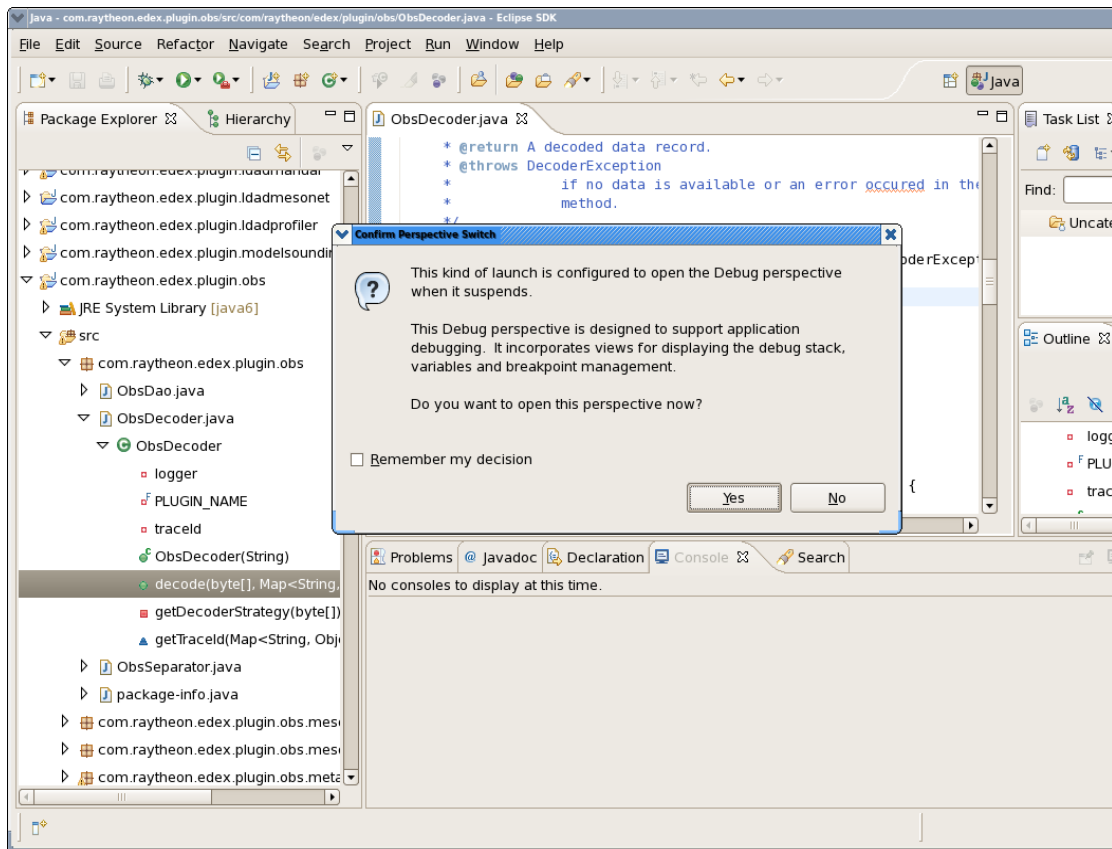
If you edit in a console window the file `/awips2/edex/bin/start.sh` you'll see that the `DEBUG` flag set to `on` has been deployed to the `edex.home` directory ie `/awips2/edex`.

Restart edex with the command : `/etc/init.d/edex_camel restart`

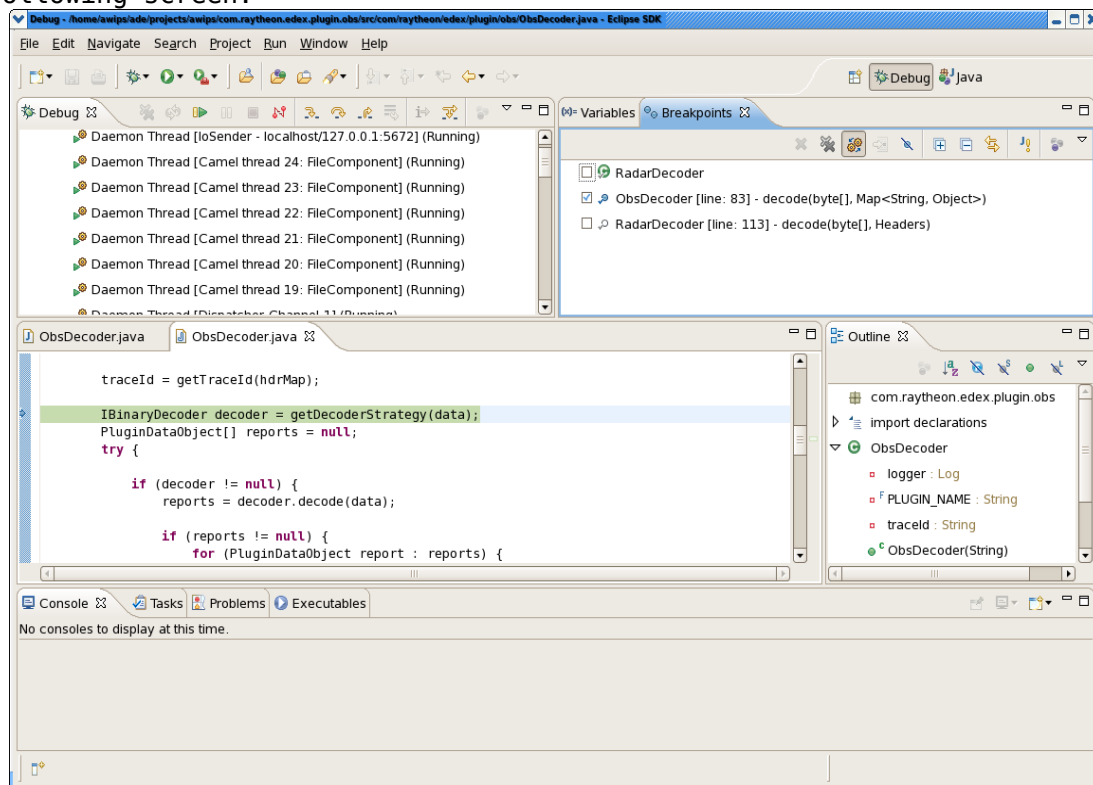
Enter **Alt-r** followed by **b** to bring up the **Debug Configurations** dialog. Select the `edex_debug` run configuration we just created and click the **Debug** button



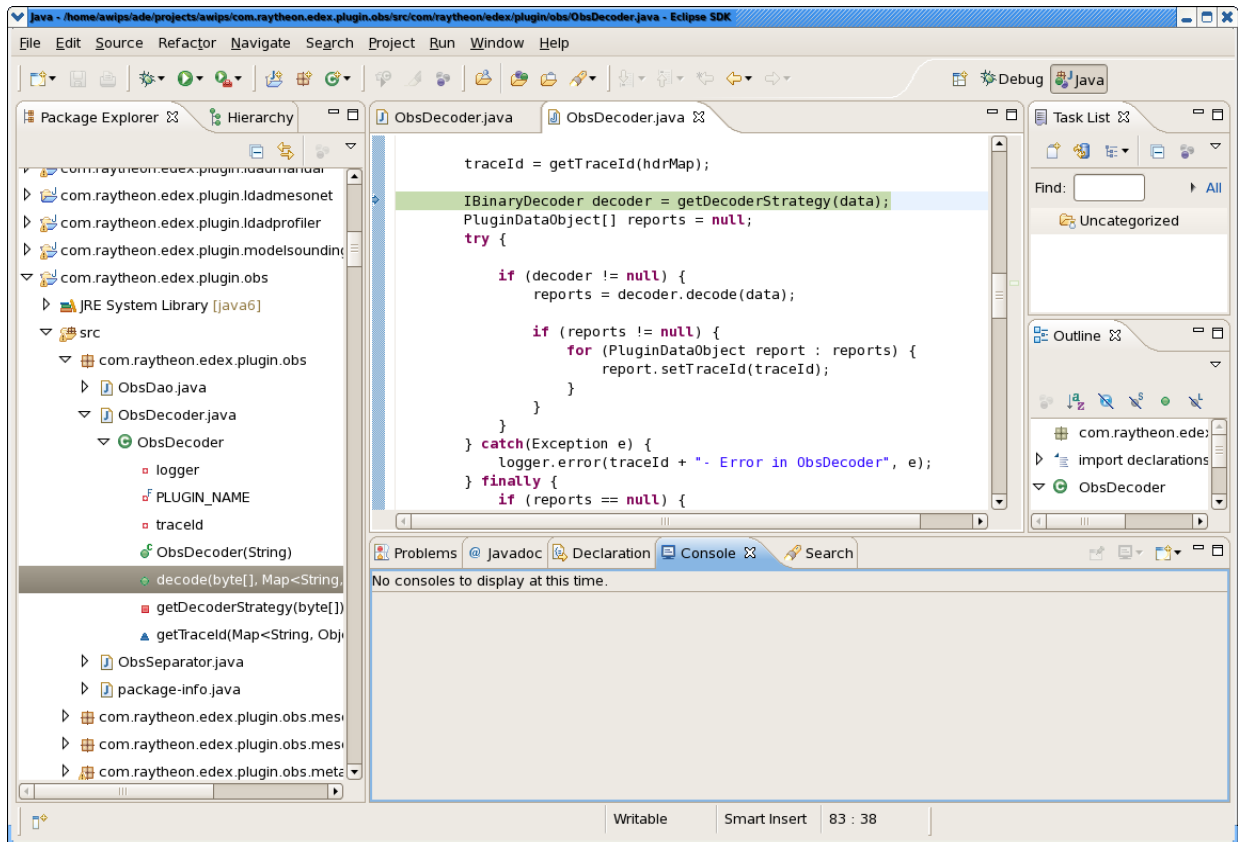
The debug session will attach to the running edex process and then prompt you to switch to the debug perspective. Click the **Yes** button.



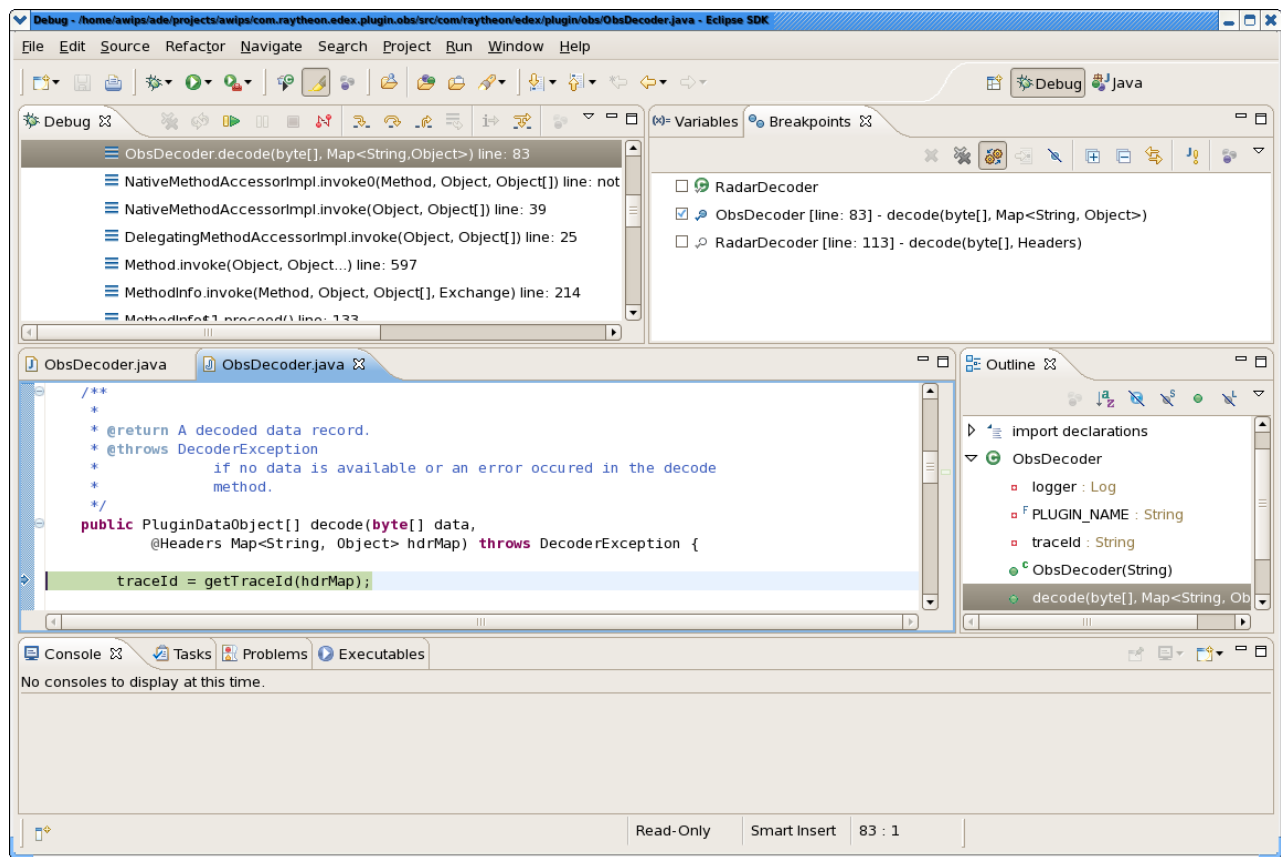
Your eclipse ide session will switch to the debug perspective as seen in the following screen.



Double click on the **java** perspective to make it current. In the **package explorer** expand the package **com.raytheon.edex.plugin.obs**, expand the **src** folder, expand the **ObsDecoder.java** src file and double click on the **decode** method. This will open the ObsDecoder.java file with the cursor on the decode method. Double click in the blue margin on the left of the editor window next to the line **"traceId = getId(hdrMap);"** to set a break point for the debugger.



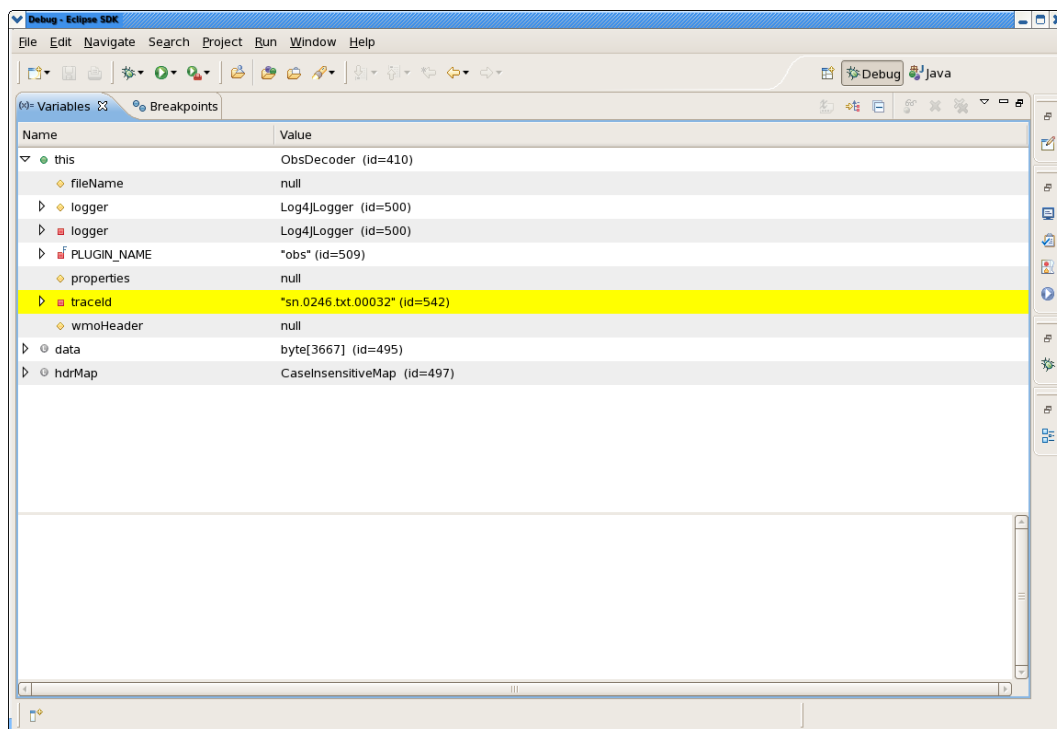
Click on the **Debug** perspective to display the debug perspective.



Drop a metar file on the `/awips/edex/data/sbn/metar` endpoint.

Example: `cp sn.0246.txt.00032 /awips2/edex/data/sbn/metar`

The debugger will stop on our break point. Click on the **step over** button or press **F6** once. The debugger will advance to the next line of code. Double click on the **Variables** tab to expand the variables window.



The traceid should have the same name as the metar file you dropped on the edex ingest end point

Double click on the variable table to return to the default debug perspective configuration.

Click the Resume button or Enter F8 to resume execution of the program.

Click on the Red Disconnect button.

Click on the Remove all Terminated sessions button

Close the Debug perspective.

End Part 2.